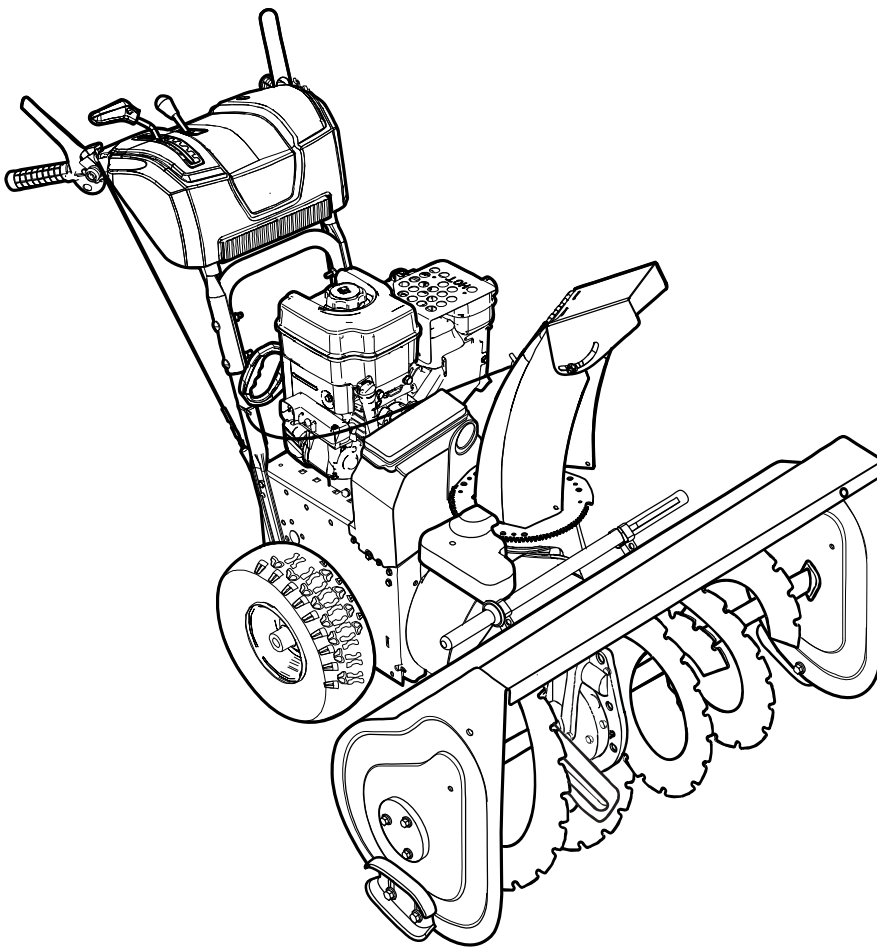


Parts Manual for

SNAPPER®

27" & 29" TWO STAGE INTERMEDIATE SNOWTHROWERS 2011

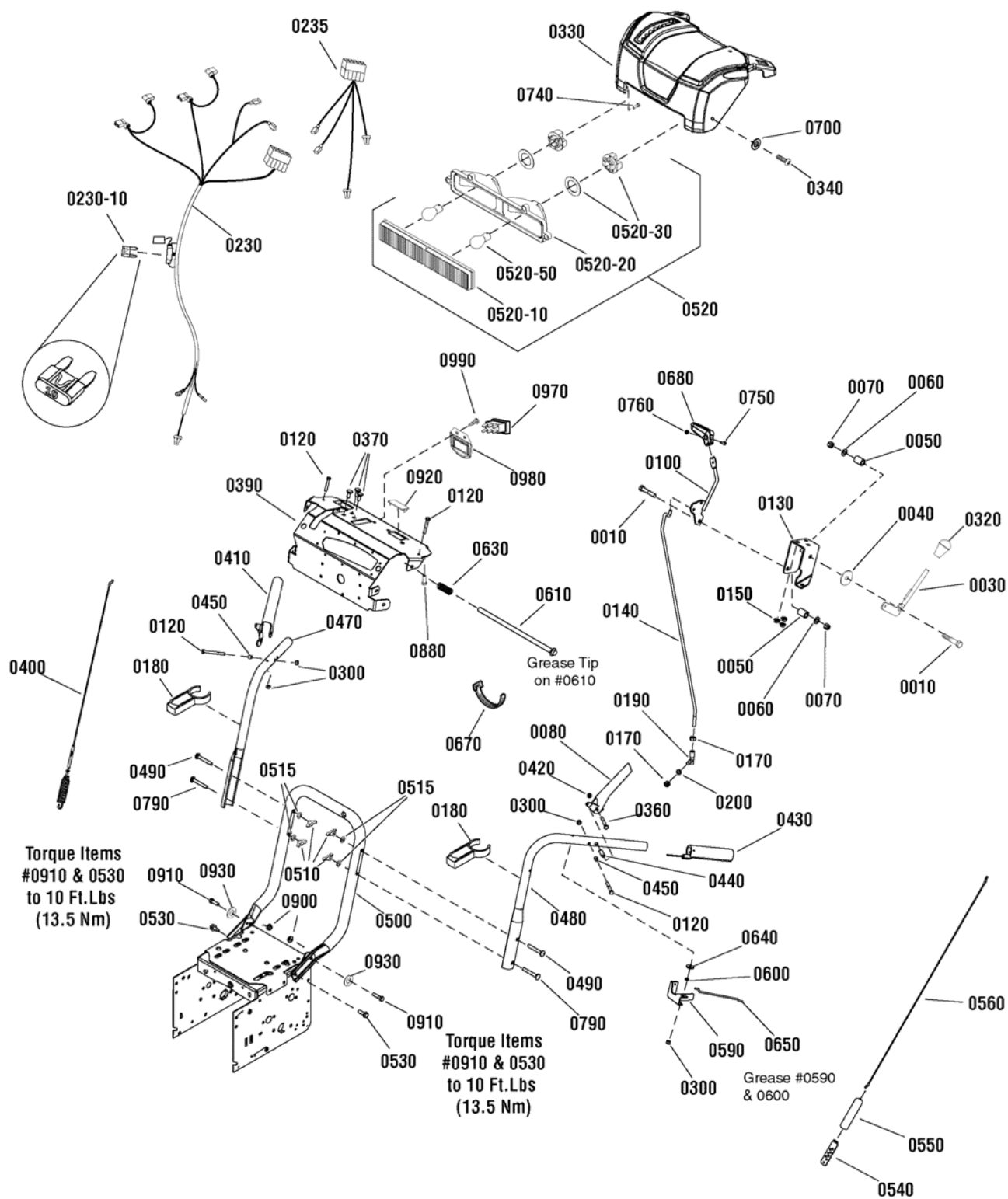
<i>Model No.</i>	<i>Description</i>
1696001	M1227E
1696002	M1227EX
1696003	M1529E



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PAGE	GROUP
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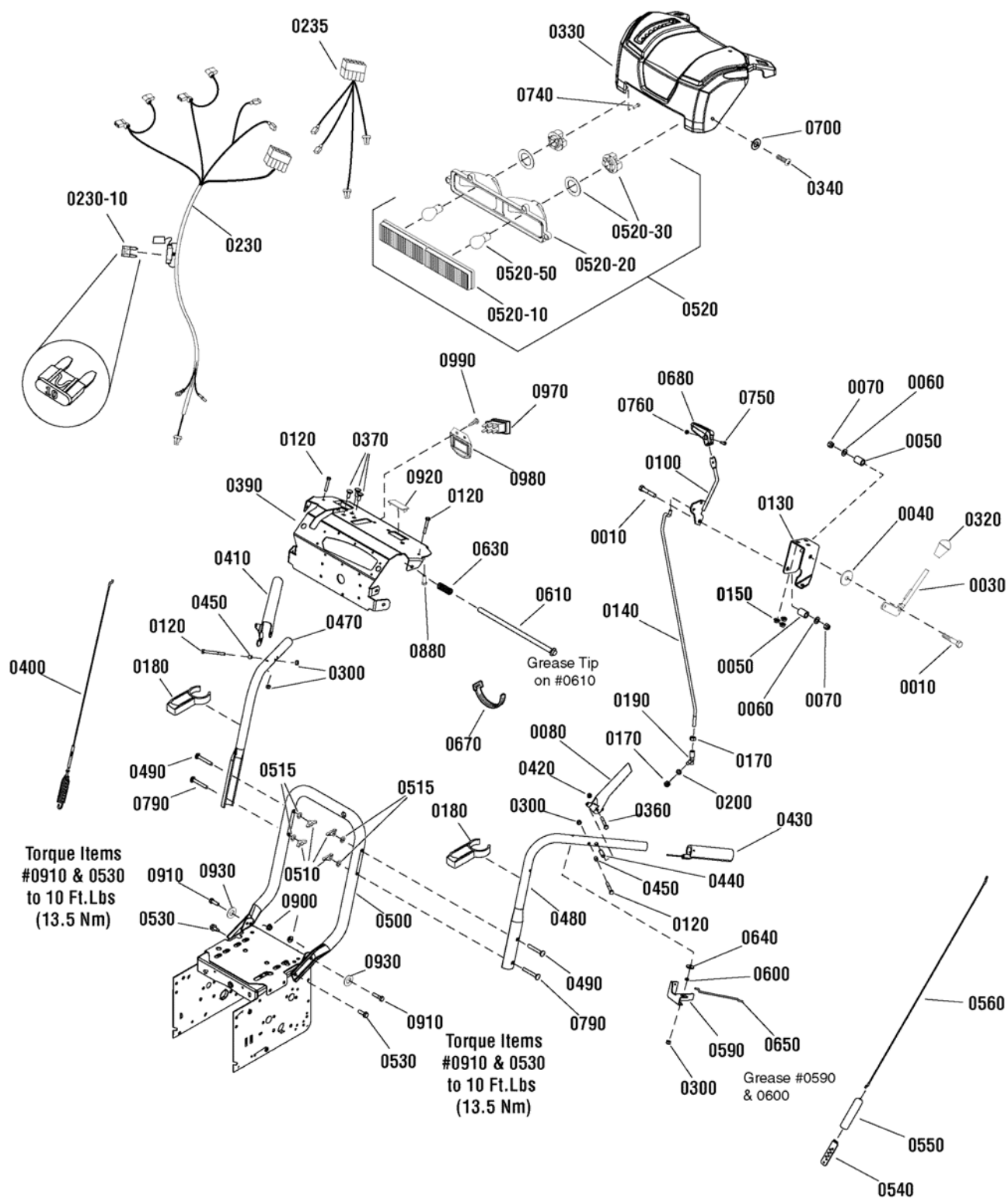
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Item	Part No	Qty	Description
0010	1923701	2	CAPSCREW, Hex Head, 3/8-16 x 2 G5
0030	1736192	1	LEVER, Deflector Control (Remote Chute)
0040	1924356	1	WASHER, 3/8 (Remote Chute)
0050	724361	2	SPRING
0060	1918266	2	WASHER, 3/8
0070	1919439	2	NUT, Hex Lock, Esna Light, 3/8-16
0080	1737690	1	LEVER, Clutch, Left
0100	1736836	1	SPEED LEVER
0120	1921962	4	CAPSCREW, Hex Head, 1/4-20 x 1-3/4 G5
0130	1737684	1	BRACKET, Controls
0140	1734354	1	ROD, 25.3/8 Long
0150	1931277	3	NUT, Hex Flange, Whiz Lock, 5/16-18
0170	2820263	2	NUT, Hex, 5/16-24
0180	1739487	2	BRACKET, Mounting, Dash
0190	724360	1	BALLJOINT
0200	1917356	1	LOCKWASHER, Spring, 5/16
0230	1750775	1	HARNESS, Wire, Headlights (Remote Chute)
0230	1750773	1	HARNESS, Wire, Electric Deflector (Electric Chute)
0230-10	-----	1	* FUSE, Mini, 10 Amp
0235	1752164	1	HARNESS, Heated Hand Grip (M1227EX & M1529E)
0300	1920397	4	NUT, Hex Lock, Esna Light, 1/4-20
0320	1732470	1	KNOB, Internal Thread, 3/8-16 (Remote Chute)
0330	1738327	1	DASH ASSEMBLY, Twin Light (Remote Chute)
0330	1738330	1	DASH ASSEMBLY, Twin Light (Electric Chute)
0340	1960001	2	SCREW, Hex Washer Head, Plastite, 10-14 x 5/8
0360	1922837	2	CAPSCREW, Hex Head, 1/4-20 x 1-1/2 G5
0370	723873	3	BOLT, Carriage, 5/16-18 x 3/4
0390	1739500A	1	SUPPORT, Dash Panel
0400	1737544	1	CABLE, Auger Drive
0410	1736323	1	LEVER, Clutch, Right
0420	1923358	2	NUT, Hex Centerlock, 1/4-20
0430	1726317	2	GRIP (M1227E)
0430	1738124	2	GRIP, Heated (M1227EX & M1529E)
0440	1736542	2	SPACER, Stepped
0450	1678392	2	SPACER, 1/4ID x 3/8OD x 5/16
0470	1734587A	1	HANDLE, Upper, Right
0480	1734586A	1	HANDLE, Upper, Left
0490	1750299	2	BOLT, Carriage, Curved Head, 5/16-18 x 2-1/4
0500	1737274A	1	HANDLE, Lower
0510	7035744	4	KNOB, Wing, 5/16-18
0515	7090391	4	WASHER, Internal Tooth, 5/16
0520	1736176	1	HEADLIGHT ASSEMBLY
0520-10	-----	1	LENS, Twin Light
0520-20	-----	2	DEFLECTOR, Twin Light

Footnotes:

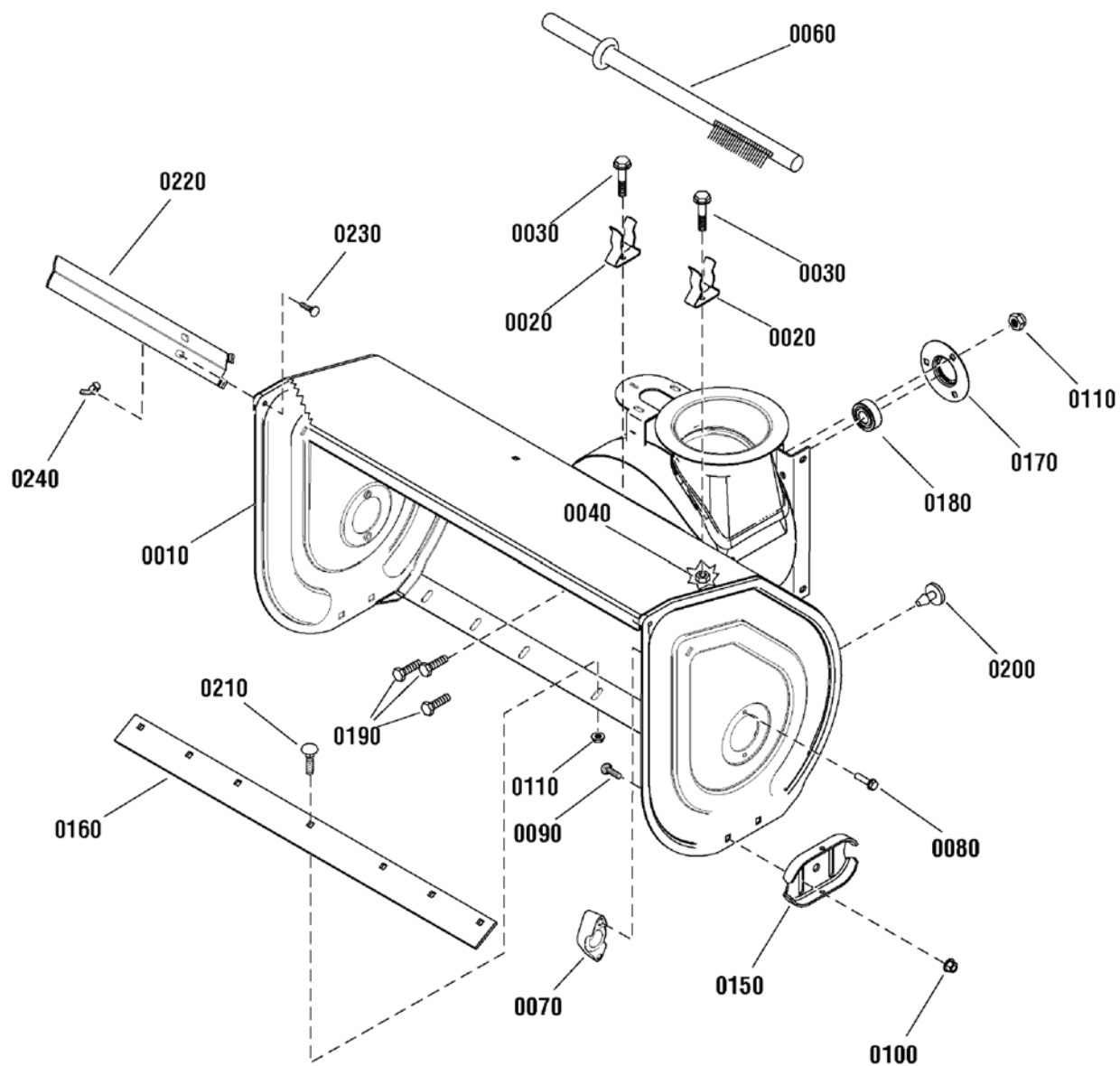
Note* See your local hardware store for replacement bulbs & fuses.



Item	Part No	Qty	Description
0520-30	1736180	2	SOCKET/GASKET ASSEMBLY
0520-50	-----	2	* BULB, 12V - 20W Halogen
0530	1664847	2	SCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4
0540	723259	1	BRACKET, Cable Adjusting
0550	723154	1	BOOT, Spring End Cover
0560	727331	1	CABLE, FR-DR P7 EXT-HDL
0590	1733505A	1	BRACKET, Pivot, Free Hand
0600	1733095	1	SPACER, 1/4ID x 3/8OD x 1/8
0610	1736363	1	ROD & SPRING ASSEMBLY (Remote Chute)
0610	1733509	1	ROD & SPRING ASSEMBLY (Electric Chute)
0630	2108360	1	SPRING, Compression, 2-1/2 Inch
0640	1960353	1	WASHER, 1/4
0650	1736360	1	ROD, 5-1/2 Long
0670	7012080	3	TIE, Cable
0680	1733192	1	KNOB, Slot Speed
0700	1921319	2	WASHER, 1/4
0740	7091105	4	SCREW, Hex Washer Head, Hi-Lo, #10-16 x 1/2
0750	1960589	1	SCREW, Round Head Phillips, #10-24 x 3/4
0760	7091290	1	NUT, Hex Lock, 10-24
0790	7091189	2	BOLT, Carriage, Curved Head, 5/16-18 x 2
0880	7091081	2	SCREW, Hex Washer Head, Self Tap, 1/4-15 x 3/4
0900	1960684	2	NUT, Hex KEPS, 5/16-18
0910	723873	2	BOLT, Carriage, 5/16-18 x 3/4
0920	1709188	1	PLUG (Remote Chute)
0930	725331	2	WASHER, Flat
0970	1752242	1	SWITCH, Heated Hand Grip (M1227EX & M1529E)
0980	1739861	1	BRACKET, Heated Hand Grip (M1227EX & M1529E)
0990	1960556	1	SCREW, Pan Head Torx, Taptite, 1/4-20 x 3/4 (M1227EX & M1529E)

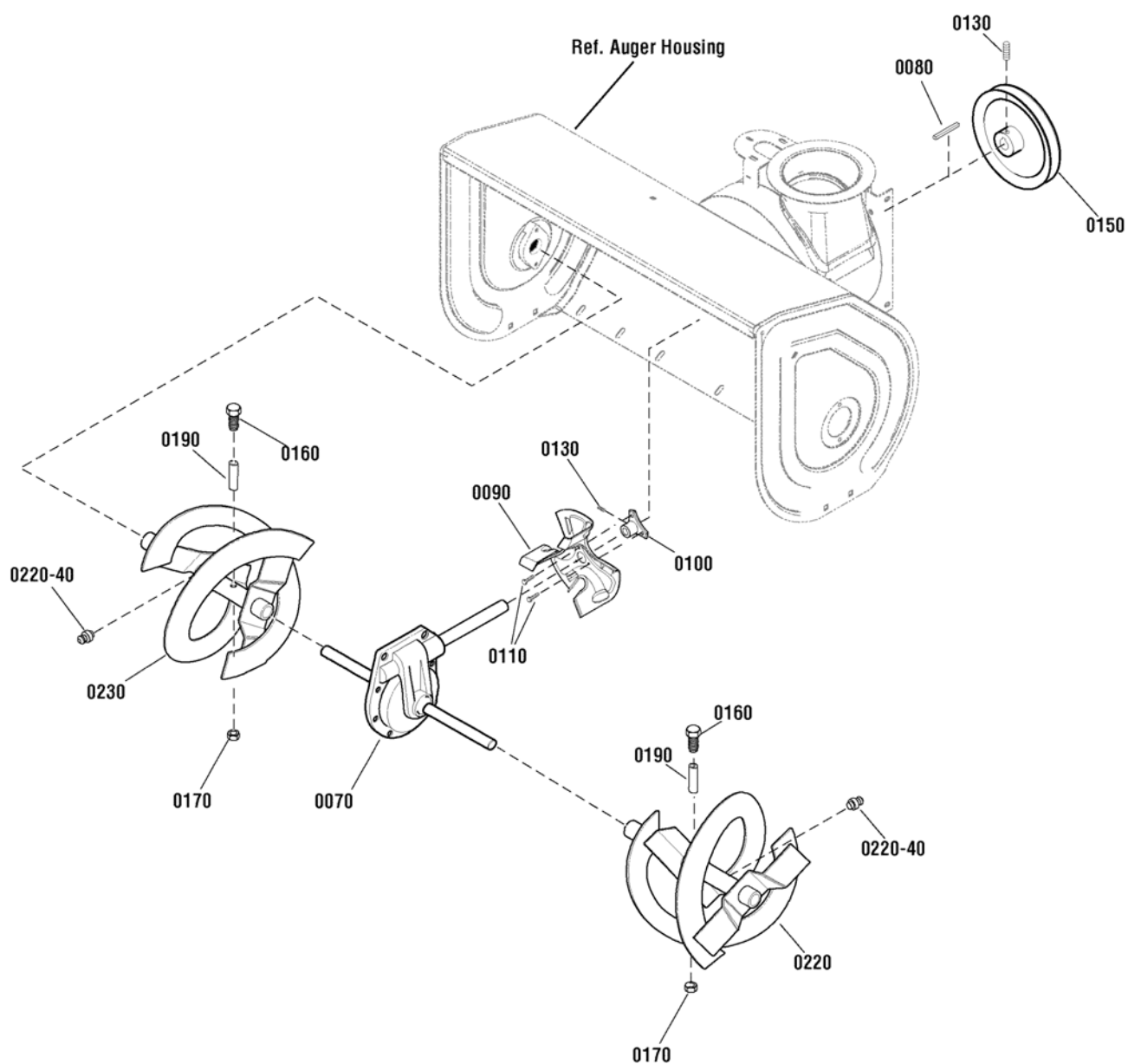
Footnotes:

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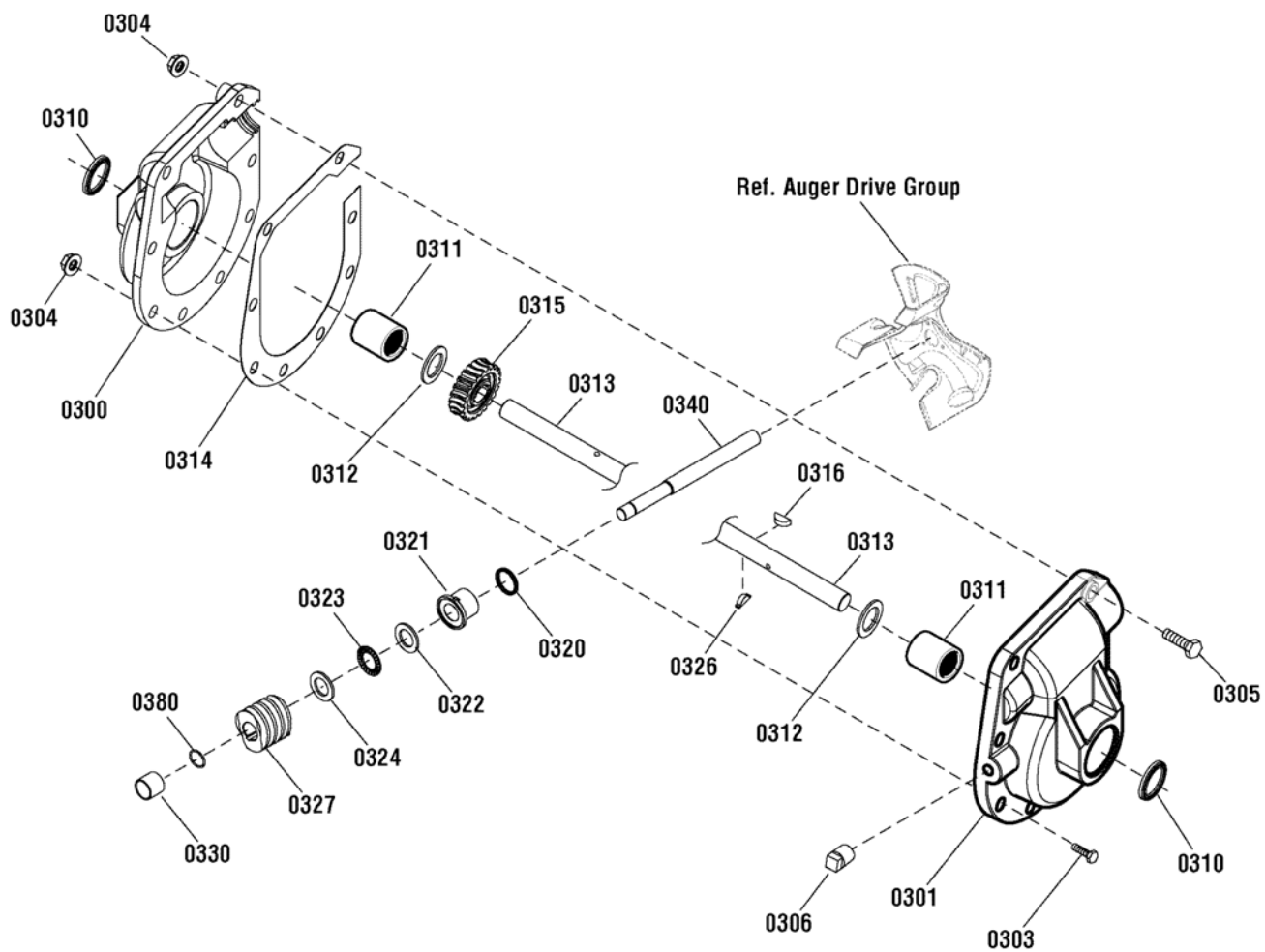
Item	Part No	Qty	Description
0010	1687616	1	HOUSING, 27"
0010	1687617	1	HOUSING, 29"
0020	1736620	2	CLIP, Retainer
0030	1960569	2	SCREW, Truss Head Torx, #10-24 x 3/8
0040	7091290	2	NUT, Nylock, 10 x 24
0060	1736094	1	BRUSH, Cleanout
0070	724427	2	BEARING, Auger Shaft
0080	722839	4	SCREW, Hex Washer Head, 5/16-18 x 3/4
0090	7091547	4	BOLT, Carriage, 3/8-16 x 3/4 GR5
0100	7091619	4	NUT, Hex Flange, 3/8-16
0110	725273	7	NUT, Hex Flange, Serrated Lock, 5/16-18
0150	1727854A	2	SKID, Shoe Reversible
0160	1740745A	1	BLADE, Scraper, 27"
0160	1740746A	1	BLADE, Scraper, 29"
0170	724712	1	RETAINER, Ball Bearing
0180	1705897	1	BEARING, Ball
0190	720018	3	BOLT, Hex, 5/16-18 x 5/8
0200	725521	2	PLUG
0210	7090799	4	BOLT, Carriage, 5/16-18 x 5/8 GR5
0220	1733102A	2	DRIFT CUTTER
0230	723873	2	BOLT, Carriage, 5/16-18 x 3/4
0240	725347	2	NUT, Wing, 5/16-18

Footnotes:



Item	Part No	Qty	Description
0070	1753073	1	GEAR CASE ASSEMBLY, 27" (Used on 27" Models)
0070	1752295	1	GEAR CASE ASSEMBLY, 29" (Used on 29" Models)
0080	722726	1	KEY, Square, 3/16 x 3/4
0090	1739094A	1	IMPELLER
0100	1739073	1	HUB, Impeller
0110	1930601	3	SCREW, Hex Washer Head, Taptite, 5/16-18 x 5/8
0130	7090848	3	SET SCREW, Socket Head, 5/16-18 x 1/2 (Used on 27" Models)
0130	1930540	3	SET SCREW, Square Head, 5/16-18 x 5/8 (Used on 29" Models)
0150	722128	1	PULLEY
0160	726061	2	CAPSCREW, Hex Head, 1/4-20 x 1-3/4, G2
0170	725429	2	NUT, Hex Center Lock, 1/4-20
0190	723913	2	SPACER, 1/4 x 1/2
0220	1740736A	1	AUGER, LH, 27" (Used on 27" Models)
0220	1740738A	1	AUGER, LH, 29" (Used on 29" Models)
0230	1740737A	1	AUGER, RH, 27" (Used on 27" Models)
0230	1740739A	1	AUGER, RH, 29" (Used on 29" Models)
0220-40	721620	1	FITTING, Grease (Included with Ref. Nos. 0220 & 0230)
--	722130	1	KIT, Shear Bolt (Includes Ref. Nos. 0160 & 0170)

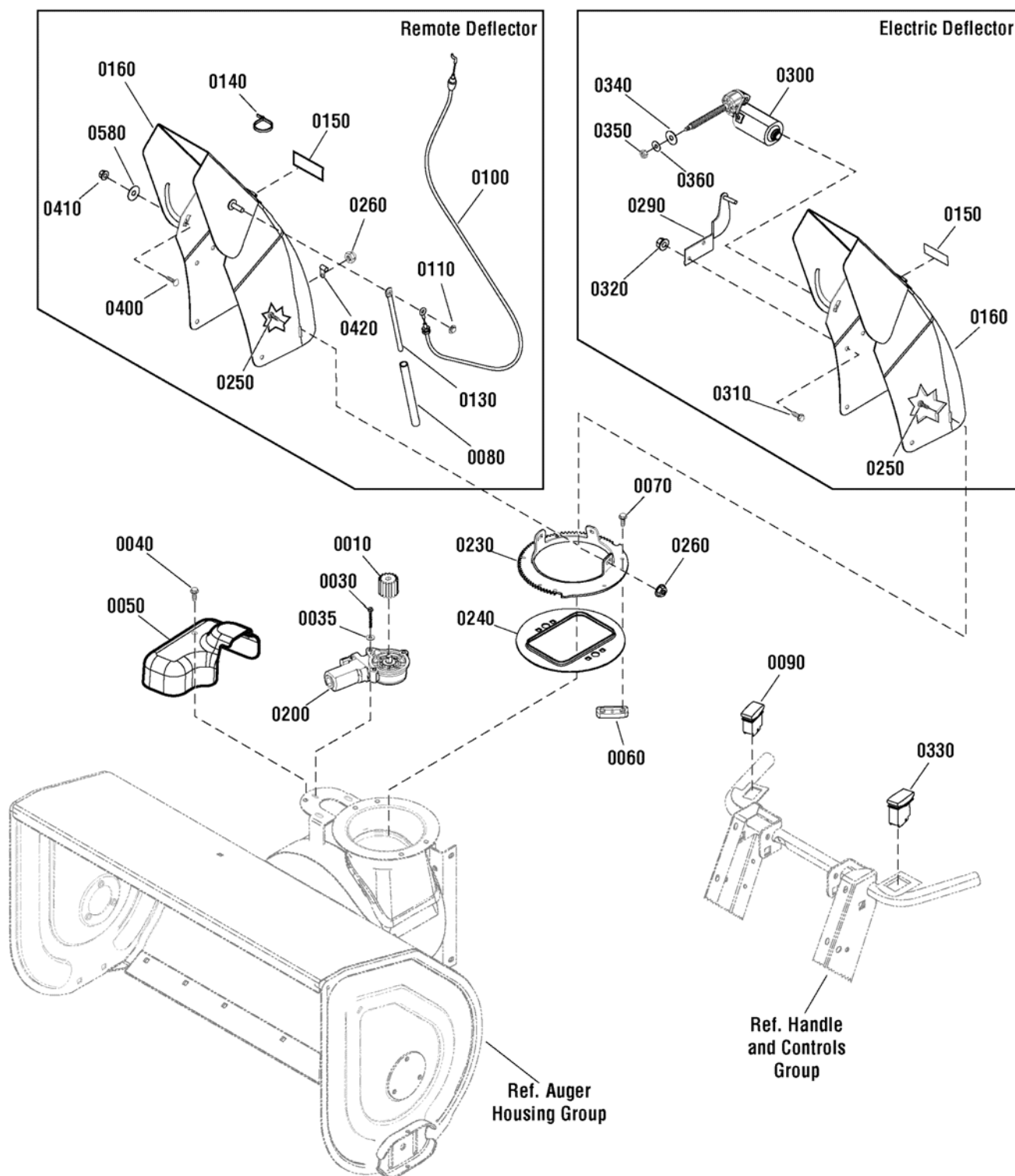
Footnotes:



Item	Part No	Qty	Description
0300	725982	1	CASE, Gear, RH
0301	725981	1	CASE, Gear, LH
0303	725996	7	CAPSCREW, Hex, 5/16-24 X 1
0304	725338	8	NUT, Hex Flange, Serrated, 5/16-24
0305	723575	1	CAPSCREW, Hex Head, 5/16-24 x 1-1/2
0306	724426	1	PLUG, Pipe, 1/4-18
0310	725874	2	SEAL, Oil
0311	724424	2	BEARING, Sleeve, 1 x 1-1/4 x 1
0312	724425	2	WASHER, Flat, 1
0313	728839	1	SHAFT, Auger Out, 27"
0313	724772	1	SHAFT, Auger Out, 29"
0314	725983	1	GASKET
0315	1752500	1	GEAR, Worm
0316	725433	1	KEY, Woodruf
0320	724423	1	RING, Quad
0321	724729	1	BEARING, Flange, 3/4ID x 1-1/8 OD
0322	724079	1	WASHER, Thrust
0323	724352	1	BEARING, Roll Thrust, 3/4 ID x 1-1/4 OD
0324	724079	1	WASHER, Thrust
0326	724366	1	KEY, Hi-Pro
0327	724421	1	WORMGEAR
0330	724420	1	BEARING, Sleeve, 3/4 ID x 7/8 OD
0340	1751535	1	SHAFT, Impeller
0380	1752515	1	RING, Retaining, 3/4"

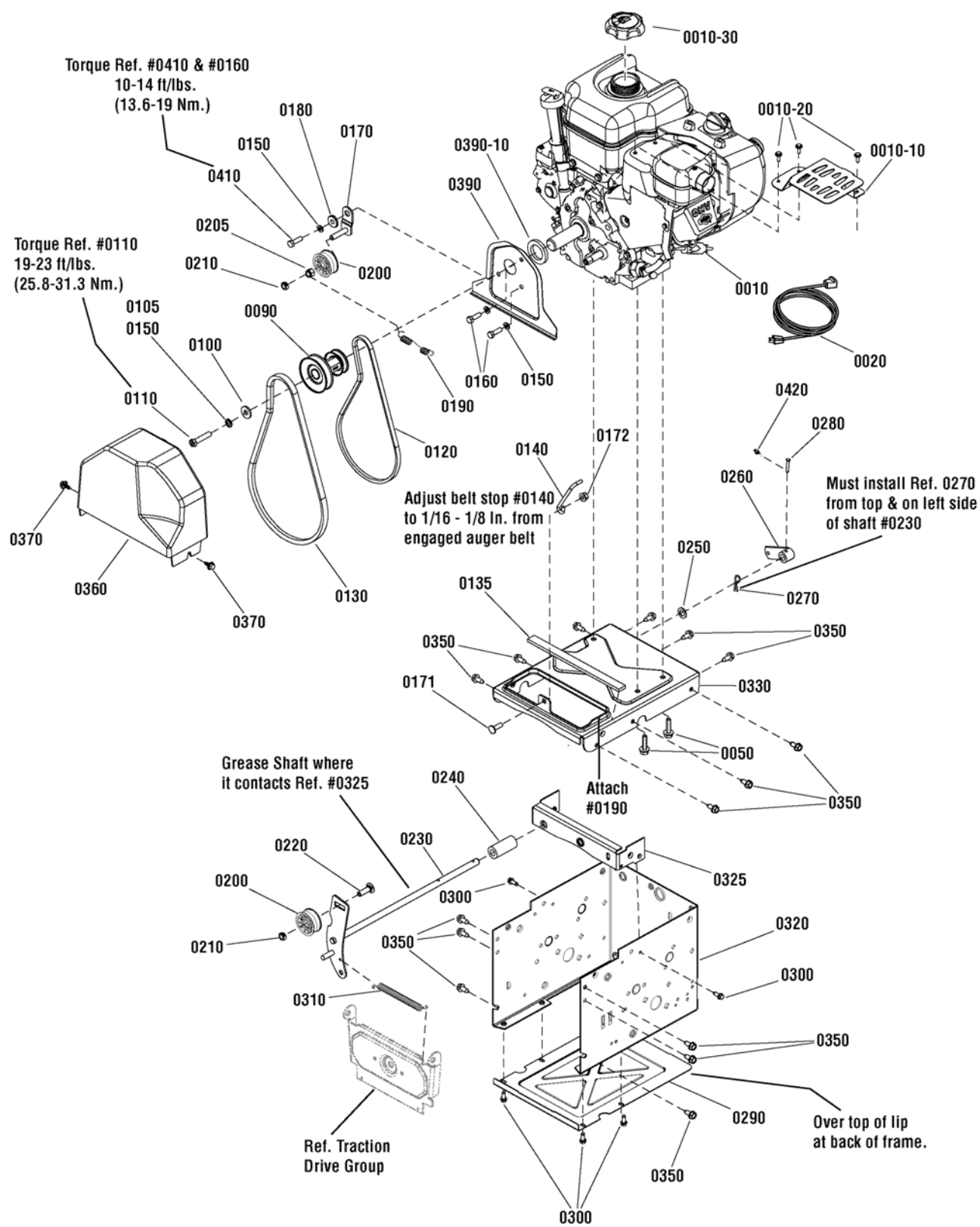
Footnotes:

Discharge Chute Group



Item	Part No	Qty	Description
0010	1728967	1	PINION
0030	1739621	3	SCREW, Button Head Torx, M5 x .8 x 14
0035	7091552	3	WASHER, Flat, 1/4
0040	1925592	1	SCREW, Hex Washer Head, Taptite, 1/4-20 x 3/4
0050	1752877	1	COVER, Electric Chute Rotation
0060	7011938	3	RETAINER, Spout
0070	1960001	6	SCREW, Hex Washer Head, Plastite, 10-14 x 5/8
0080	1734647	1	SPRING, Compression, 6 Inch (Remote Deflector)
0090	1752240	1	SWITCH, Chute Rotation
0100	1750623	1	CABLE, Deflector Control (Remote Deflector)
0110	1932718	1	NUT, Push, 5/16 (Remote Deflector)
0130	1734708A	1	ROD, Spring Guide, 5-7/8 (Remote Deflector)
0140	720393	3	TIE, Self Lock
0150	1738340	2	DECAL, Chute Hinge
0160	1737443D	1	CHUTE (Remote Deflector)
0160	1738045D	1	CHUTE (Electric Deflector)
0200	1739309	1	MOTOR, Spout Rotator
0230	1737465A	1	GEAR, Short, Steel Chute
0240	1737411	1	ADAPTER, Chute Ring
0250	720386	7	BOLT, Carriage, 1/4-20 x 3/4
0260	1960685	7	NUT, Hex KEPS, 1/4-20
0290	1738267BM	1	BRACKET, Weld Stud (Electric Deflector)
0300	1737941	1	MOTOR, Deflector (Electric Deflector)
0310	1960715	2	SCREW, Truss Head Torx, 1/4-20 x 3/4 (Electric Deflector)
0320	1960694	2	NUT, Hex Flange, ESNA, 1/4-20 (Electric Deflector)
0330	1737379	1	SWITCH / COVER (Electric Deflector)
0340	1738244	1	WASHER, Rubber (Electric Deflector)
0350	1738245	1	NUT, Left Hand (Electric Deflector)
0360	725330	1	WASHER, Flat, 1/4 (Electric Deflector)
0400	1931333	1	BOLT, Carriage, Short Neck, 5/16-18 x 3/4, G5
0410	1739305	1	NUT, Hex Flange, ESNA, 5/16-18
0420	1739331	1	CLIP, Cable
0580	2860210	2	WASHER, Nylon, 3/8

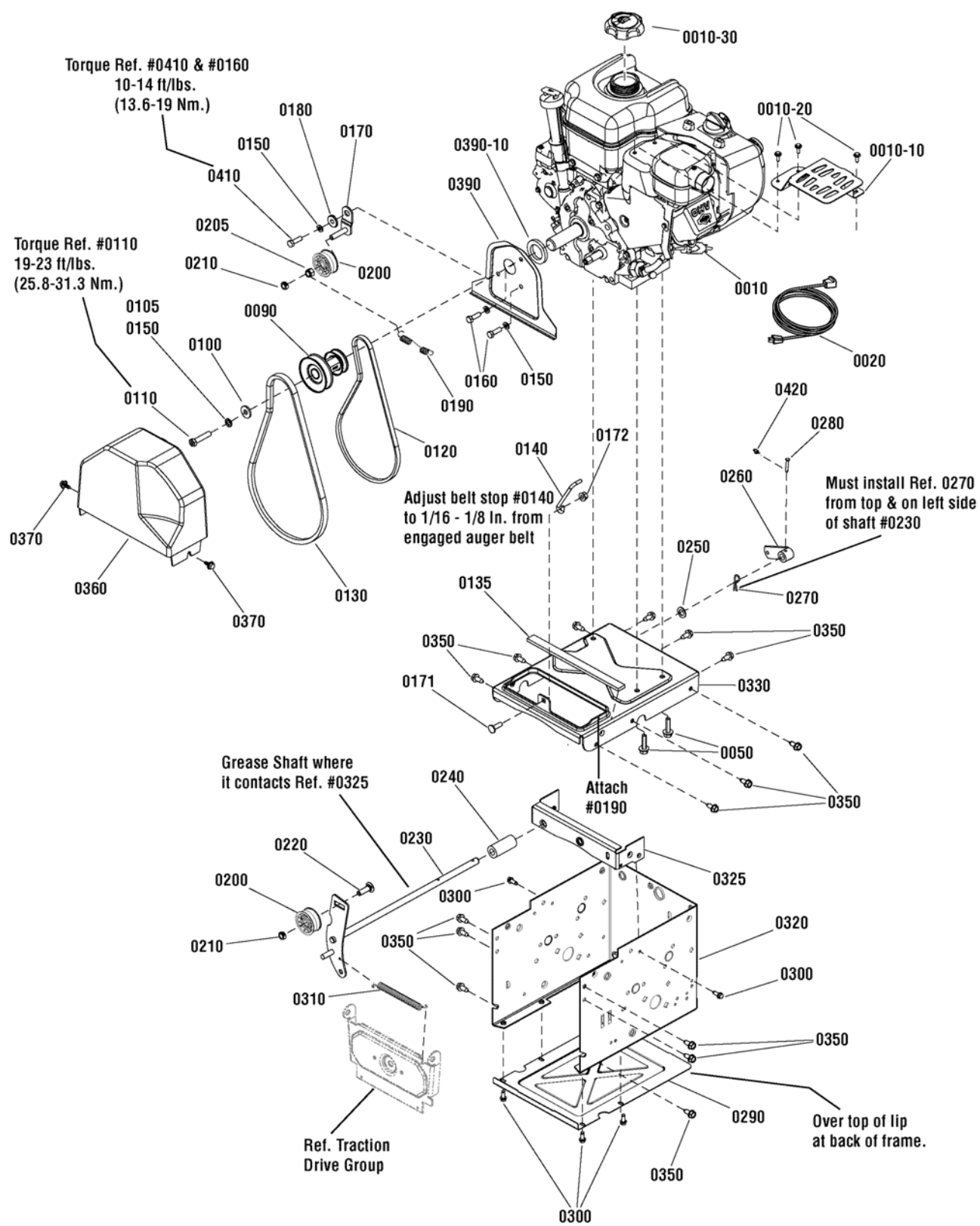
Footnotes:



Item	Part No	Qty	Description
0010	15C114-0153-F8	1	* ENGINE, 11TP Briggs & Stratton (Engine Model: 15C114-0153-F8)
0010	20M314-0136-F1	1	* ENGINE, 14.5TP Briggs & Stratton (Engine Model: 20M314-0136-F1)
0010-10	797003	1	* GUARD, Muffler (Used on 11.5TP Models)
0010-10	797095	1	* GUARD, Muffler (Used on 14.5TP Models)
0010-20	699854	2	* SCREW, Muffler Guard (Used on 11.5TP Models)
0010-20	699234	2	* SCREW, Muffler Guard (Used on 14.5TP Models)
0010-30	795027	1	* CAP, Fuel
0020	724865	1	CORD, Electric
0050	75246	4	SCREW, Hex Head, Trilobular, 3/8-16 x 1-1/4
0090	1739514	1	PULLEY
0100	1919381	3	WASHER, 5/16 (Used on 11.5TP Models)
0100	1922755	1	WASHER, 3/8 (Used on 14.5TP Models)
0105	1916965	1	LOCKWASHER, Spring, 3/8 (Used on 14.5TP Models)
0110	722041	1	CAPSCREW, Hex Head, 5/16-24, 1-3/4, G5 (Used on 11.5TP Models)
0110	2860768	1	CAPSCREW, Hex Head, 3/8-16 x 1-3/4 (Used on 14.5TP Models)
0120	1733324	1	V-BELT, Traction Drive, 3L, 33.13
0130	724801	1	BELT, Auger Drive, V4L 38.10
0135	1750314	1	SEAL, Strip
0140	1737377	1	STOP, Belt
0160	1921515	2	CAPSCREW, Hex Head, 5/16-24 x 3/4, G5
0150	1917356	4	LOCKWASHER, Spring, 5/16 (Qty 3 used on 14.5TP models)
0170	1739846	1	BRACKET, Idler
0171	1931335	1	BOLT, Carriage, Short Neck, 5/16-18 x 1, G5
0172	1960684	1	NUT, Hex KEPS, 5/16-18
0180	722072	1	BUSHING, Idler Bracket
0190	722457	1	SPRING, Extension, Idler
0200	722378	2	IDLER
0205	7091299	1	NUT, Hex Nylock, 3/8-16
0210	1960251	2	NUT, Hex Centerlock Jam, 3/8-16
0220	724823	1	BOLT, Carriage, Short Neck, 3/8-16 x 1-1/2, G5
0230	1739574	1	IDLER, Auger
0240	1739964	1	SPACER, Auger Bracket
0250	1960027	1	WASHER, 1/2
0260	1733451	1	ARM, Control
0270	725367	1	PIN, Hair
0280	1736381	1	PIN, Clevis
0290	1737221A	1	PANEL, Bottom
0300	1927429	6	SCREW, Hex Washer Head, Taptite, 1/4-20 x 5/8
0310	722455	1	SPRING, Extension, Auger
0320	1739107D	1	FRAME
0325	1739093A	1	ANGLE, Auger & Traction Rod Mounting
0330	1739450D	1	PLATE, Engine (Used on 11.5TP Models)
0330	1739449D	1	PLATE, Engine (Used on 14.5TP Models)
0350	1664847	15	SCREW, Hex Washer Head, Taptite, 5/16-18 x 3/4

Footnotes:

Note* See your local Briggs & Stratton Distributor for Parts & Service.



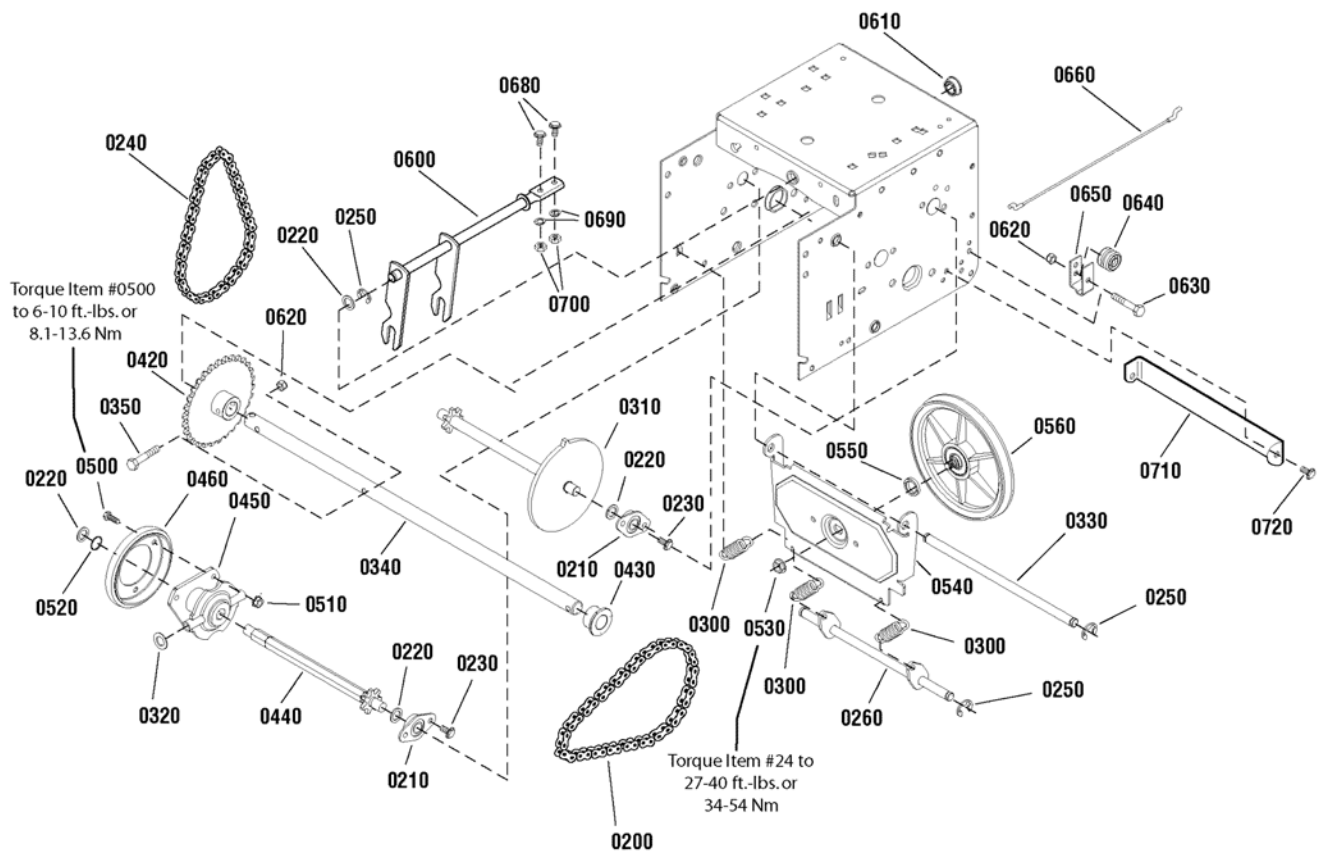
Item	Part No	Qty	Description
0360	1750551	1	COVER, Belt
0370	1751355	2	SCREW, Hex Washer Head, Tap, SEMS, 1/4-20 x 3/4
0390	1733868A	1	PLATE, Seal (Used on 11.5TP Models)
0390-10	1733898	1	SEAL, Foam (Used on 11.5TP Models)
0410	725996	1	BOLT, Hex, 5/16-24 x 1
0420	7023590	1	PIN, Cotter, Self Locking, 1/4"

Not for
Reproduction

Footnotes:

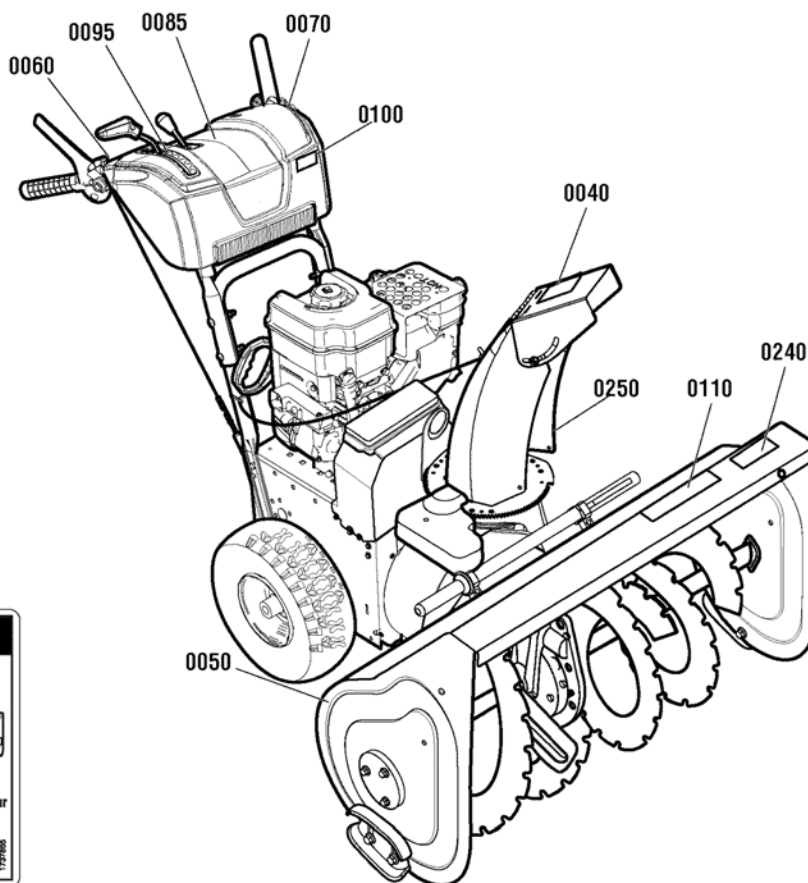
Note* See your local Briggs & Stratton Distributor for Parts & Service.

Traction Drive Group - Standard



Item	Part No	Qty	Description
0200	724613	1	CHAIN, Roller, 19"
0210	723655	4	RETAINER & BUSHING ASSEMBLY
0220	724619	5	WASHER, Flat, 1/2
0230	1924856	8	SCREW, Hex Washer Head, Taptite, 5/16-18 x 1/2
0240	724627	1	CHAIN, Roller, 18 Inch
0250	721910	5	RETAINER, Ring, 7/16
0260	722377	1	SPRING LINK
0300	1736469	3	SPRING, Extension
0310	722081	1	SPROCKET
0320	1960027	2	WASHER, 1/2
0330	722082	1	AXLE, Swing Plate
0340	722211	1	AXLE, 23-1/8 Lg
0350	720220	1	BOLT, Hex, 1/4-20 x 1-3/4, G8
0420	722080	1	AXLE SPROCKET, 30T
0430	722091	2	BEARING, Axle, D-Hole
0440	722083	1	HEX SHAFT & SPROCKET ASSEMBLY
0450	1739282	1	HUB, Friction Wheel and Bearing
0460	722185	1	WHEEL, Friction
0500	1921959	3	CAPSCREW, Hex Head, 1/4-20 x 5/8 G5
0510	1928372	3	NUT, Hex Keps, 1/4-20
0520	1733326	1	RING, Retaining
0530	722391	1	NUT, Flange Lock, 3/8-24
0540	722069	1	PLATE, Swinging
0550	722110	1	SPACER, Friction Pulley
0560	722092	1	FRICTION PULLEY ASSEMBLY
0600	722087	1	SPEED SELECTOR ASSEMBLY
0610	724636	1	BEARING, Flange, 1/2ID x 7/8OD
0620	1920397	2	NUT, Hex Lock, ESNA Light, 1/4-20
0630	1922837	1	CAPSCREW, Hex Head, 1/4-20 x 1-1/2 G5
0640	724621	1	CABLE SPOOL, Auger Control
0650	1750398	1	BRACKET, Cable Spool
0660	1750403	1	CABLE, Front Lower Drive
0680	720017	2	BOLT, Hex, 1/4-20 x 5/8
0690	7091576	2	NUT, Hex, 1/4-20, G5
0700	1916964	2	LOCKWASHER, Spring, 1/4
0710	722364	1	BRACKET, Support
0720	1927429	2	SCREW, Hex Washer Head, Taptite, 1/4-20 x 5/8

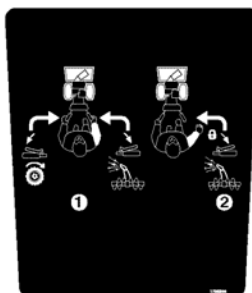
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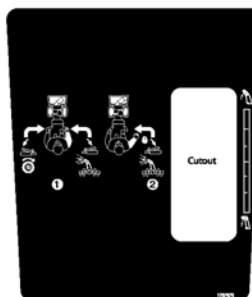
0040



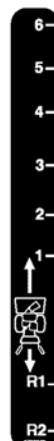
0050



0085



0085



0095



0100



0110



0250



0240



0060

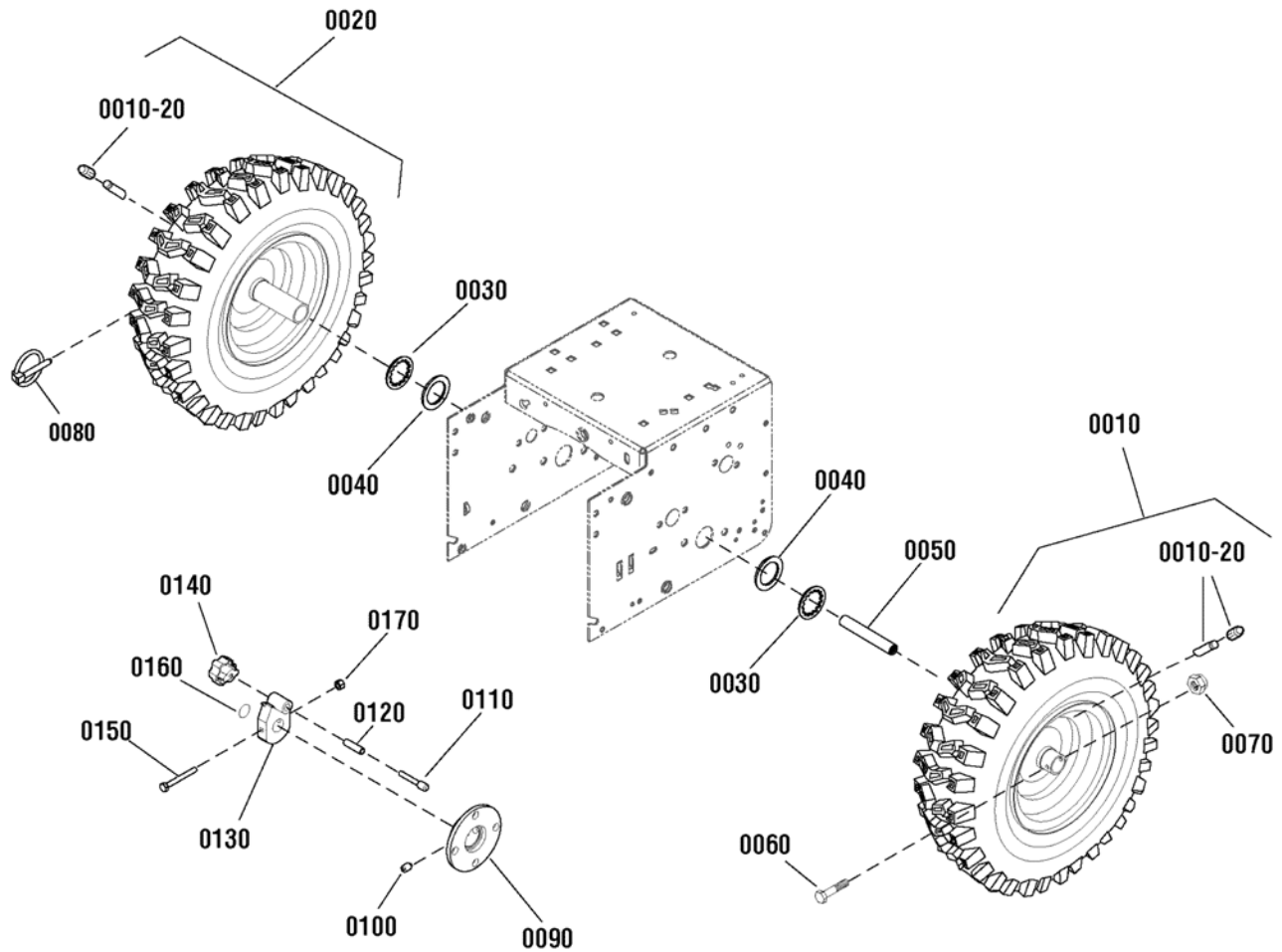


0070

Item	Part No	Qty	Description
0040	1737865	1	DECAL, Danger Chute, FR/ENG
0050	1737866	1	DECAL, Danger Foot, FR/ENG
0060	1737869	1	DECAL, Auger Control Symbols
0070	1737870	1	DECAL, Traction Control Symbols
0085	1737875	1	DECAL, Controls, w/ Remote (Remote Deflector Models)
0085	1738344	1	DECAL, Controls, Free Hand (Electric Deflector Models)
0095	1738349	1	DECAL, Speed Control
0100	1750407	1	DECAL, Logo, Panel
0110	1751401	1	DECAL, Logo, Housing
0240	1750409	1	DECAL, Model, M1227E
0240	1751439	1	DECAL, Model, M1227EX
0240	1750410	1	DECAL, Model, M1529E
0250	1752570	2	DECAL, Turtle

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Footnotes:







Item	Part No	Qty	Description
0010	1739926	1	WHEEL & TIRE ASSEMBLY, 16 x 4.8, P2-539, LH (Used on 27" Models)
0010	1750348	1	WHEEL & TIRE ASSEMBLY, 16 x 6.5, P2-539, LH (Used on 29" Models)
0020	1739927	1	WHEEL & TIRE ASSEMBLY, 16 x 4.8, P2-539, RH (Used on 27" Models)
0020	1750347	1	WHEEL & TIRE ASSEMBLY, 16 x 6.5, P2-539, RH (Used on 29" Models)
0010-20	2172353	1	VALVE STEM & CAP
0030	1657528	2	RING, Retaining, Self Lock, 3/4
0040	725394	1	WASHER, Flat, 3/4 (Used on 29" Models)
0050	722102	1	BUSHING, Wheel, 5-1/2" (Used on 29" Models)
0060	724545	1	BOLT, Hex, 1/4-20 x 1-3/4, G5
0070	722400	1	NUT, Hex, Nylock, 1/4-20 (Used on 27" Models)
0080	725431	1	PIN, Klik, 1/4 x 1-3/8
0090	722053	2	DISC, Wheel Lock (Used on 29" Models)
0100	722727	2	CAPSCREW, Hex Head, 3/8-16 x 1/2 (Used on 29" Models)
0110	722309	1	PIN, Wheel Lock, 1/4-20 (Used on 29" Models)
0120	722412	2	SPRING, Compression (Used on 29" Models)
0130	1920397	1	NUT, Hex Lock, ESNA Light, 1/4-20 (Used on 29" Models)
0140	722308	1	KNOB, Wheel Lock (Used on 29" Models)
0150	725430	1	CAPSCREW, Hex Head, 1/4-20 x 2-1/4, G8 (Used on 29" Models)
0160	724256	1	DECAL, Wheel Lock (Used on 29" Models)
0170	722310	1	HUB, Wheel Lock (Used on 29" Models)

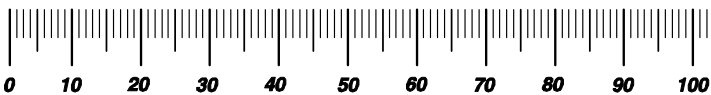
Footnotes:

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Hardware Identification & Torque Specifications

Torque Specification Chart								
FOR STANDARD METRIC MACHINE HARDWARE (Tolerance $\pm 20\%$)								
Property Class	 Class 5.6		 Class 8.8		 Class 10.9		 Class 12.9	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
M3	5.88	.56	13.44	1.28	19.2	1.80	22.92	2.15
M4	13.44	1.28	30.72	2.90	43.44	4.10	52.56	4.95
M5	26.4	2.50	60.96	5.75	5.97	8.10	7.15	9.7
M6	44.64	4.3	7.3	9.9	10.3	14	12.1	16.5
M7	5.2	7.1	12.1	16.5	16.9	23	19.9	27
M8	7.7	10.5	17.7	24	25	34	29	40
M10	15	21	35	48	50	67	59	81
M12	26	36	61	83	86.2	117	103	140
M14	42	58	101	132	136	185	162	220
M16	64	88	147	200	210	285	250	340
M18	89	121	202	275	287	390	346	470
M20	126	171	290	390	405	550	486	660
M22	169	230	390	530	559	745	656	890
M24	217	295	497	375	708	960	840	1140
M27	320	435	733	995	1032	1400	1239	1680
M30	435	590	995	1350	1401	1900	1681	2280
M33	590	800	1349	1830	1902	2580	2278	3090
M36	759	1030	1740	2360	2441	3310	2935	3980
M39	988	1340	2249	3050	3163	4290	3798	5150

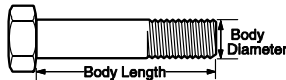
The guides and ruler furnished below are designed to help you select the appropriate hardware.



Nut, M8

Thread Diameter (mm)
Inside Diameter (in)
Threads per inch

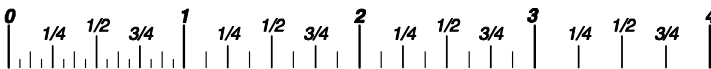
Nut, 1/2-16



Screw, M8- 1.25 x 25

Thread Diameter (mm)
Body Diameter
Distance between threads (mm)
Threads per inch
Body Length (mm)
Body Length (in)




Screw, 1/2- 16 x 2



Standard Hardware Sizing

When a washer or nut is identified as 1/2" (M8), this is the *Nominal size*, meaning the *inside diameter* is 1/2 inch (8mm metric thread diameter); if a second number is present it represents the *threads per inch* (distance between threads).

When bolt or capscrew is identified as 1/2 - 16 x 2" (M8 - 1.25 x 50), this means the *Nominal size*, or body diameter is 1/2 inch (8mm metric thread diameter), the second number, 16, represents the *threads per inch*, (1.25 thread diameter). The final number is the body length of the bolt or screw, 2 inches (50mm).

Torque Specification Chart						
FOR STANDARD MACHINE HARDWARE (Tolerance $\pm 20\%$)						
Hardware Grade	 SAE Grade 2		 SAE Grade 5		 SAE Grade 8	
Size Of Hardware	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.	in/lbs ft/lbs	Nm.
8-32	19	2.1	30	3.4	41	4.6
8-36	20	2.3	31	3.5	43	4.9
10-24	27	3.1	43	4.9	60	6.8
10-32	31	3.5	49	5.5	68	7.7
1/4-20	66	7.6	8	10.9	12	16.3
1/4-28	76	8.6	10	13.6	14	19.0
5/16-18	11	15.0	17	23.1	25	34.0
5/16-24	12	16.3	19	25.8	29	34.0
3/8-16	20	27.2	30	40.8	45	61.2
3/8-24	23	31.3	35	47.6	50	68.0
7/16-14	30	40.8	50	68.0	70	95.2
7/16-20	35	47.6	55	74.8	80	108.8
1/2-13	50	68.0	75	102.0	110	149.6
1/2-20	55	74.8	90	122.4	120	163.2
9/16-12	65	88.4	110	149.6	150	204.0
9/16-18	75	102.0	120	163.2	170	231.2
5/8-11	90	122.4	150	204.0	220	299.2
5/8-18	100	136	180	244.8	240	326.4
3/4-10	160	217.6	260	353.6	386	525.0
3/4-16	180	244.8	300	408.0	420	571.2
7/8-9	140	190.4	400	544.0	600	816.0
7/8-14	155	210.8	440	598.4	660	897.6
1-8	220	299.2	580	788.8	900	1,244.0
1-12	240	326.4	640	870.4	1,000	1,360.0

NOTES

- These torque values are to be used for all hardware excluding: locknuts, self-tapping screws, thread forming screws, sheet metal screws and socket head setscrews.
- Recommended seating torque values for locknuts:
 - for prevailing torque locknuts - use 65% of grade 5 torques.
 - for flange whizlock nuts and screws - use 135% of grade 5 torques.
- Unless otherwise noted on assembly drawings, all torque values must meet this specification.

Common Hardware Types

Hex Head Capscrew



Washer



Lockwasher








Carriage Bolt



Hex Nut



Wrench & Fastener Size Guide

				
1/4" Bolt or Nut Wrench—7/16"	5/16" Bolt or Nut Wrench—1/2"	3/8" Bolt or Nut Wrench—9/16"	7/16" Bolt or Nut Wrench (Bolt)—5/8" Wrench (Nut)—11/16"	1/2" Bolt or Nut Wrench—3/4"
M6 Bolt or Nut Wrench—10mm	M8 Bolt or Nut Wrench—13mm	M10 Bolt or Nut Wrench—17mm	M12 Bolt or Nut Wrench—19mm	M14 Bolt or Nut Wrench—22mm

Parts Manual for

SNAPPER®

**27" & 29" TWO STAGE
INTERMEDIATE SNOWTHROWERS
2011**

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